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Dated: March 17, 2004

Signature: 

(Mary Jane DiPalma)

Docket No.: LYMF-P03-007  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Roifman et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: March 16, 2004

Art Unit: Not Yet Assigned

For: NOVEL COMPOUNDS FOR MODULATING  
CELL PROLIFERATION

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

All of the patent(s) or publication(s) in the attached form PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in a prior application number 09/834728, filed April 12, 2001 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

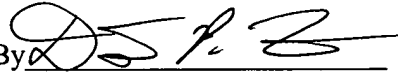
Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. LYMF-P03-007.

Dated: March 17, 2004

Respectfully submitted,

By 

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Substitute for form 1449A/B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				Application Number	Not Yet Assigned
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				First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	7	Attorney Docket Number	LYMF-P03-007

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-2,798,881	07-09-1957	Baer et al.	
	AB	US-3,125,597	03-17-1964	Wahl et al.	
	AC	US-3,852,683	12-03-1974	Webster et al.	
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	AE	US-4,554,238	11-19-1985	Bushman	
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	AT	US-5,773,476	06-30-1998	Chen et al.	
	AU	US-5,789,427	08-04-1998	Chen et al.	
	AV	US-5,792,771	08-11-1998	App et al.	
	AW	US-5,849,742	12-15-1998	App et al.	
	AX	US-5,851,999	12-22-1998	Ullrich et al.	
	AY	US-5,891,917	04-06-1999	Tang et al.	
	AZ	US-5,932,580	08-03-1999	Levitzki et al.	
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	AB1	US-5,990,193	11-23-1999	Russell et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)				
	BA	-EP 0 125 866	11-21-1984			
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	BC	-EP 0 335 641	10-04-1989			
	BD	-EP 0 570 594	11-24-1993			
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	BF	-EP 0 731 697	09-18-1996			
	BG	JP-60-244595 *ACS Abstract No. AN 104:197140 CA	12-04-1985			
	BH	JP-2-193954 *ACS Abstract No. AN 114:193378 HCA	07-31-1990			
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	BJ	JP-3-230127 *ACS Abstract No. AN 116:139697 HCA	10-14-1991		
	BK	JP-3-259126 *ACS Abstract No. AN 116:162099 HCA	11-19-1991		
	BL	JP-4-198924 *ACS Abstract No. AN 118:90352 HCA	07-20-1992		
	BM	JP-4-36731 *ACS Abstract No. AN 117:16907 HCA	02-06-1992		
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	BX	WO-96/40629	12-19-1996		
	BY	WO-01/79158	10-25-2001		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk ( ) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Abdel-Rahman (1991). "Inverse electron demand Diels-Alder reactions of electron-withdrawing-group-substituted 1,3-butadiene derivatives with enamines. Synthesis of cyclohexene derivatives," M.A. Sohag Pure Appl. Sci. Bull. 7:30-40, ACS abstract AN 118:212527 CA only.	
	CB	Adachi, T. et al. (1999). "A Novel Lyn-Binding Peptide Inhibitor Blocks Eosinophil Differentiation, Survival, and Airway Eosinophilic Inflammation," Journal of Immunology 163:939-946.	
	CC	Astle, M.J. and Gergel, W.C. "Catalysis with ion exchange resins. Knoevenagel condensations of cyanoacetic acid," Chemical Abstracts 51:2641g.	
	CD	Balalala, S. and Nemati, N. (2000). "Ammonium acetate-basic alumina catalyzed Knoevenagel condensation under microwave irradiation under solvent-free condition," Synthetic Communications 30(5):869-875.	
	CE	Bandgar, B.P. et al. (1997). "Condensation of alpha-cyanothioacetamide with aldehydes catalyzed by Enviocat EPZG," Synthetic Communications 27(7):1153-1156.	
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CF	Banerjee PK and Amidon GL. (1985). "Design of prodrugs based on enzymes-substrate specificity," In Design of Prodrugs, Bundgaard H, ed. Elsevier: New York, pp. 93-133.
CG	Beilstein Institut Zur Foederund Der Chemischen Wissenschaften, Frankfurt Am Main, De; Database-Accession no. 2329569 (BRN), XP002179053 & J. Chem. Soc., vol. 123, 1923, page 3138.
CH	Cabello, J.A. et al. (1984). "Knoevenagel Condensation in the Heterogeneous Phase Using $\text{AlPO}_4\text{-Al}_2\text{O}_3$ as a New Catalyst," Journal of Organic Chemistry 49(26):5195-5197.
CI	Chen, J.J. and Wang I.J. (1995). "Synthesis and Fluorescence Behaviour of Some 3-Cyano-4-Substituted-6-Pyrenyl-2-Pyridone Derivatives," Dyes and Pigments. 27(3):249-259.
CJ	Choudary, B.M. et al. (1999). "Knoevenagel and aldol condensations catalysed by a new diamino-functionalized mesoporous material," Journal of Molecular Catalysis A: Chemical 142(3):361-365.
CK	Conqueret, Xavier (1999). "Photoreactivity of polymers with dimerizable side-groups: Kinetic analysis for probing morphology and molecular organization," Macromolecular Chemistry and Physics 200:1567-1579.
CL	Costisella, B., Gross, H. (1984). "alpha-Substituted phosphonates. 46. 1-Cyanodiene-1-amines and 1-cyanotriene-1-amines via the Horner reaction," Z. Chem. 24(10):383-384 (in German) and ACS Abstract AN 103:6414 CA.
CM	Dai, C. et al. (1982). "Structural effect in forked conjugative systems, Bifurcation-type of forked polyenic nitriles, carboxylic acids and esters," Scientia Sinica. Series B, Chemical, biological, agricultural, medical & earth sciences / Chung-kuo k'o hsueh yuan, chu pan. (Engl. ed.) 25(10):1023-1034.
CN	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2331300 (BRN), XP002179051
CO	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1983526 (BRN), XP002179052
CP	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 2329569 (BRN), XP002179053
CQ	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 6696684 (BRN), XP002179054
CR	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 5905971 (BRN), XP002179055
CS	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1954179 (BRN), XP002179056
CT	Database Crossfire Beilstein 'Online! Beilstein Institut Zur Foederung Der Chemischen Wissenschaften, Frankfurt Am Main, DE; Database Accession no. 1959697 (BRN), XP002179057
CU	DeLombaert, S. and Ghosez, L. (1984). "Synthesis and phase-transfer mediated alkylations of 2-Diethylamino-4-Phenylsulfonyl-2-butenenitrile an efficient homoenolate equivalent," Tetrahedron Letters 25:3475-3478.
CV	DeSa, A.J., S.L. and Pitta, I. DaR (1979). "Synthesis and spectroscopic study of ethyl 2-cyano-5-phenyl-2,4-pentadienoate and two of its derivatives," An. Assoc. Bras Quim. 30:113-116 (in Portuguese with English abstract) and ACS Abstract AN 96:34120.
CW	Enk, A.H. and Knop, J. (2000). "T-Cell Receptor Mimic Peptides And Their Potential Application In T-Cell Mediated Disease" Int Arch Allergy Immunol 123:275-281.

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CX	Eugster, C.H. et al. "New type condensation reactions with isoxazoles-an extension of the Ritter reaction." Chemical Abstracts 59:585b.
CY	Fausser A.A. and Messner H.A. (1978). "Granuloerythropoietic Colonies In Human Bone Marrow, Peripheral Blood, And Cord Blood," Blood, 52(6), 1243-1248.
CZ	Foucaud, A. and Bakouetila, M. (1987). "Facile Epoxidation of Alumina-Supported Electrophilic Alkenes and Montmorillonite-Supported Electrophilic Alkenes with Sodium Hypochlorite," Synthesis 9:854-856.
CA1	Freedman, M.H. et al. (1992). "Central Role Of Tumour Necrosis Factor, GM-CSF, and Interleukin 1 In The Pathogenesis Of Juvenile Chronic Myelogenous Leukaemia," Br J Haematol. 80(1):40-48.
CB1	Freeman, F. (1980). "Properties and Reactions of Ylidenemalononitriles," Chem. Rev. 80:329-350.
CC1	Frohardt, R. P. et al. "Chemistry of streptimidone. A new antibiotic," Chemical Abstracts 54:3192h.
CD1	Gazit, A. et al. (1991). "Tyrophostins. 2. Heterocyclic And Alpha-Substituted Benzylidenemalononitrile Tyrophostins As Potent Inhibitors Of EGF Receptor and ErbB2/neu Tyrosine Kinases," J. Med. Chem. 34:1896-1907.
CE1	Grinstein, V. and Serina, L. (1963). "Cyanothioacetamide and its derivatives," Chemical Abstracts 60: 5391h.
CF1	Halestrap, A.P. (1975). "The Mitochondrial Pyruvate Carrier. Kinetics and specificity for substrates and inhibitors," Biochemical Journal 148(1):85-96.
CG1	Halestrap, A.P. (1976). "The Mechanism of the Inhibition of the Mitochondrial Pyruvate Transporter by alpha-Cyanocinnamate Derivatives," Biochemical Journal 156(1):181-183.
CH1	Hassan, H.H. et al. (1986). "Some reactions of 2-Cinnamylidene and 2-Benzylidene-1,3-Indandione," Pak. J. Sci. Ind. Res. 29:105-107.
CI1	Ho, Y.W. and Wang, I.J.J. (1995). "Studies on the Synthesis of Some Styryl-3-cyano-2(1H)-pyridine-thiones and Polyfunctionally Substituted 3-Aminothiopheno[2,3-b]-pyridine Derivatives," Journal of Heterocyclic Chemistry 32(3):819-825.
CJ1	Hu, Weixiao et al. (1985). "Differential pulse polarography on bifurcate conjugate systems. I. Homologous progressive change of the peak potential," Fenzi Kexue Yu Huaxue Yanjiu 5(1)87-92, ACS Abstract AN 104:5348 CA only.
CK1	Ichimura, K. et al. (1987). "Photosensitive Resins Containing p-Dimethylaminobenzylidene Derivatives and Diphenyliodonium Salt as Photoinitiators," Journal of Applied Polymer Science 34(8):2747-2756.
CL1	Iizawa, T. et al. (1983). "Studies of photopolymer. XX. Synthesis of photosensitive polymers with pendant photosensitive groups and photosensitizer groups," Kobunshi Ronbunshu 40:425-432 QD 281 P6 K752 (in Japanese with English abstract) and ACS Abstract AN 99:123029 CA.
CM1	Jukhnovskii, I. and Binev, I. (1977). "Infrared Spectra and Structure of Carbanions - XIV. Isomeric Carbanionic adducts of some substituted cyano-polyenes," Bulletin des Societes Chimiques Belges 86(10):793-798.
CN1	Kantam, M.L. et al. (1998). "Aldol and Knoevenagel condensations catalysed by modified Mg-Al hydrotalcite: a solid base as catalyst useful in synthetic organic chemistry," Chemical Communications (Cambridge England) 9:1033-1034.
CO1	Kasyapa, C. S. et al. (1999). "Regulation of IL-15-Simulated TNF-alpha Production by Rolipram," Journal of Immunology 163:2836-2843.
CP1	Konwar, D. et al. (1998). "Organic Synthesis with Anion-exchange Resins: Reaction of Imines with Active Methylene Compounds," Journal of Chemical Research Synopsis 6:342-343.
CQ1	Krishan, K. and Singh, N. (1974). "Reactions of Open-Chain Conjugated Nitrones with Active Methylene Compounds," J. Indian Chem. Soc. 51(9): 802-804.
CR1	Kryshtal, G.V. et al. (1979). "Phase-Transfer Catalysis of the Michael Addition to alpha,beta-

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		Unsaturated Aldehydes," Synthesis 2:107-109.	
	CS1	Kryshtal, G.V. et al. (1980). "New possibilities for the synthesis of polyfunctional cyclopropanes under interphase catalysis conditions in a liquid-solid phase system," Izvestia Akademii nauk SSSR Seriya khimicheskaya 10:2420-2423 (in Russian) and ACS Abstract AN 94:46812 CA.	
	CT1	Kurkovskaja, L.N. et al. (1995), "H and <sup>13</sup> C NMR Spectrum-Structure correlations for a series of polyene compounds," Zhurnal Strukturnoi Khimii, English, Journal of Structural Chemistry 36(4):638-642.	
	CU1	Lechat, J.R. et al. (1981). "Ethyl 2-Cyano-5-phenyl-(2E,4E)-pentadienoate," Acta Crystallographica Section B: Structural Science B37(7):1470-1471.	
	CV1	Li, J-T et al. (1999). "Synthesis of ethyl alpha-cyanocinnamates under ultrasound irradiation," Ultrasonics Sonochemistry 6(4):199-201.	
	CW1	Liang, D. et al. (1981). "Structural effect in cross conjugative systems. IV. Properties of alpha-carboxyphenylpolyenic cyanides and the quantum chemical," Fenzi Kexue Xuebao 1:17-30 (in Chinese with English abstract) and ACS Abstract AN 96:180289 CA.	
	CX1	Lin, T. et al. (1993). "Transition metal polyhydrides-catalyzed addition of activated nitriles to aldehydes and ketones via Knoevenagel condensation," Journal of Organometallic Chemistry 448(1-2): 215-218.	
	CY1	Martelli, J. and Carrie, R. (1977). "Reaction of cinnamylidenemalonate esters or cinnamylidene cyanoacetic esters and the corresponding malononitriles with diazomethane; thermolysis of the corresponding pyrazolines," Bulletin de la Societe Chimique de France 11-12, Pt. 2:1182-1186 (in French) and ACS Abstract AN 89:43222 CA.	
	CZ1	Martelli, J. et al. (1973). "Stereospecific methylation of cinnamylidenecyanoacetic acid esters and cinnamylidenemalononitrile using diazomethane," Comptes Rendus de l'Academie des Sciences Serie IIc:Chimie (C.R. Acad. Sci. Ser. C.) 276:523-525 (in French) and ACS Abstract AN 78:135492 CA.	
	CA2	Martelli, J. et al. (1978). "Orientation and primary site in the addition of diazomethane on some substituted butadienes. Theoretical interpretation," Nouv. J. Chim. 2:609-613 and ACS Abstract AN 90:120818 CA.	
	CB2	Matsuoka, M. et al. (1990). "Cyanovinylheteroaromatics for Organic Nonlinear Optics," Molecular Crystals and Liquid Crystals Science and Technology Section A 182A:71-79.	
	CC2	Messner H. A. and Fauser, A. A. (1980). "Culture Studies Of Human Pluripotent Hemopoietic Progenitors," Blut, 41(5): 327-333.	
	CD2	Minami, T. et al. (1985). "Cycloaddition of Diazomethane to Butadienylphosphonates. A New Approach of Functionalized Pentadienylphosphonates and Pyrazoles," Chem. Lett. 1985 8:1099-1102.	
	CE2	Minami, T. et al. (1983). "Synthesis of Butadienylphosphonates containing electronegative substituents and their synthetic applications to functionalized cyclopentenylphosphonates," Tetrahedron Lett. 24(8):767-770.	
	CF2	Mohan, S. and Sandhu, J.S. (1971). "Addition of Diazomethane on Strongly Electrophilic Olefins," Journal of the Indian Chemical Society 48(3):305-306.	
	CG2	Nesterov, V.N. et al. (2000). "trans,trans-2-Cyano-5-(4-methoxy-phenyl)penta-2,4-dienethioamide," Acta Crystallographica Section C: Crystal Structure Communications C56(1):88-89.	
	CH2	Nguyen, K.S. et al. (1974). "Sulfur heterocyclic compounds. LXIX. Synthesis and structure of variously substituted 2-amino-5-thioaroylthiophenes," Bulletin de la Societe Chimique de France 3-4 Pt. 2:471-474 (in French) and ACS Abstract AN 81:63423 CA.	
	CI2	Ooms, P. et al. (1976). "Chemistry of Tetra-alkoxyethenes. Part VII. Thermal [2+2] Cycloadditions with 1-Cyanobutadienes" Journal of the Chemical Society, Perkin Transactions 1 14: 1538-1543.	
	CJ2	Piskov, V. B. (1967). "Tetracycline analogs. I. General preparation of beta-aryl-beta1-	

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		carboxymethylpimelic acids" Zhurnal Organicheskoi Khimii 3(2):416-419 (in Russian) and ACS Abstract AN 66:115418 CA.	
CK2		Popp, F. and Catala, A. (1961). "Synthesis of 3-hydrozypyridines. II. The preparation of unsaturated cyano esters and their reaction with diazo-methane" J. Org. Chem. 26(8):2738-2740.	
CL2		Prajapati D. and Sandhu, J.S. (1992). "Bismuth(III)chloride as a New Catalyst for Knoevenagel Condensation in the Absence of Solvent" Chemistry Letters. 10:1945-1946.	
CM2		Prajapati, D. and Sandhu, J.S. (1993). "Lithium bromide as a new catalyst for carbon-carbon bond formation in the solid state" J. Chem. Soc., Perkin Transactions 1:959-960.	
CN2		Prajapati, D. et al. (1993). "Cadmium Iodide as a New Catalyst for Knoevenagel Condensations," J. Chem. Soc., Perkin Transactions 1: 739-740.	
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Examiner Signature		Date Considered	
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				Application Number	Not Yet Assigned
				Filing Date	March 17, 2004
				First Named Inventor	Chaim M. Roifman
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	7	of	7	Attorney Docket Number	LYMF-P03-007

	CG3	Wizinger, R. and Sontag, H. (1955) "Vinylene "shift" in asymmetric phenylpolyenes" Chem. Abstracts 51:5739I, 5740a-I, 5741a and ACS abstract AN 51:29795 CA.	
	CH3	Yasuda, Heinosuke; Sakao, Toshihisa; Yamadi Yoichi (1995). "The Knoevenagel condensation between aromatic aldehydes and ethyl cyanoacetate catalyzed by KF-betaine catalyst" Utsunomiya Daigaku Kyoikugakubu Kiyo, Dai-2-bu 45:33-41 (in Japanese with English Abstract) and ACS Abstract AN 124: 29360CA.	
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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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